

Headquarters U.S. Air Force

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Dental Digital Radiology Status Report



14 February 2007

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- **Current AF DDRS “Team”**
- **Phase I Status**
- **Phase II Status**
- **Issues**
 - Software
 - Hardware
 - Contracting
 - Business Practices and Policy Changes
- **Other Concerns**
- **CDA and AHLTA Integration**
- **What’s Next?**



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AF DDRS Team

- **Air Force Medical Logistics Office**
 - Ft. Detrick, MD
 - Maj Steven Casimir and Ms. Paula Bins
 - Prepare packages for submission to contracting
- **Defense Supply Center, Philadelphia (DSCP)**
 - Review packages / Provide advice
 - Award contracts
- **Col Stanczyk/Col(ret) Stuckey**
 - Liaison between AFMLO and AFDS
- **AF/SGR – Col Ibanez-Pabon**
- **Col(s) Graver**



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DDRS Phase I

- **18 DTFs Included**
- **FY05 Funds Used**
- **11 Sites Completed:** Maxwell, Malmstrom, USAFA, Elmendorf, Sheppard, Elmendorf, Eielson, Robins, FE Warren, Hill, Hickam
- **2 Sites Currently in Progress:** W-Pat, Kadena
- **6 Sites Scheduled:** Misawa, Hanscom, Eglin, Edwards, Tinker, Yokota
- Completion of Phase I planned for June 2007



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DDRS Phase II

- **61 DTFs Included**
- **FY06 Funds Used**
 - Funds Obligated
 - Purchase Orders must be completed by 30 Sep 07
- **Contracting Process Will Change vs. Phase I**
 - Will have significant Government Purchased Equipment
 - Possible multiple integrators/installers
 - May speed process and cost less
- **Requires Complete Site Proposal Review**
 - Initial Review Complete – nearly all had significant disconnects
 - Site coordination on disconnects in progress



MiPACS Software Issues

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Software currently does not allow for error correction

- **Patient demographics locked after creation**
 - Name, Gender, DOB, SSAN
- **Images locked after “Approval”**
 - Cannot “un-approve” to correct orientation errors
 - Cannot rename series after approval
 - Cannot move images from one series to another
 - Cannot add images to previously approved series
- **Current Situation is Unacceptable**
 - Once made, errors cannot be corrected
 - High potential for wrong site procedure
 - Fixes from Medicor are pending, ECD mid-Feb 2007



DDRS Hardware Issues

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Current AF Network Certification limits hardware choices

■ **Not Entirely a bad situation**

- Helps standardization, eases training and support
- Eases sole-source justification

■ **However...**

- May limit ability to switch to new technology

■ **Current Primary Hardware Choices**

- Panoramic: Planmeca, Kodak, Schick
- Intraoral digital sensors: Kodak, Schick
- PSP Scanner: Air Techniques ScanX



DDRS Panoramic Devices

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■ **Planmeca ProMax**

- Multiple configurations: Pan only; Ceph and Tomo add-ons
- Extraoral BWXR capability standard
- Cone beam 3D add-on: ~\$100k
 - No current MiPACS integration



■ **Kodak 8000 Panoramic**

- Has Ceph add-on capability
- No conversion to Cone beam currently
- Large footprint



- **Schick CDRPanX** – Pan only; none in current proposals





DDRS Digital Sensor Devices

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- **Schick CDR Sensors**

- 1.2 Megapixel equivalent
- 0.6MB image size
- <5mm thickness



- **Kodak 6100 Sensors**

- 4.0 Megapixel equivalent
- 2.0MB image size
- Significantly >5mm in thickness
- ~\$600 - \$800 more than Schick



- **Current Dilemma:** Which to choose?

- "Last year's technology" vs. "Resolution Overkill"?



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DDRS PSP Devices

- **Phosphor Storage Plate Sensors**
 - Same sizes and techniques as film
 - Still need to “develop” and “mount” the image
 - Overall cost much less than digital sensors
 - DDRS uses both digital and PSP sensors
 - PSP was intended for backup



■ **Unintended Consequences of dual technology**

- Most technicians prefer PSP
- At least one clinic is nearly 100% PSP
- Resolution is lower than with digital sensors





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Central Archive Capability

- **DDRS Includes a single Global Image Repository**
 - Will be located at Wright Patterson AFB
 - Design being coordinated at AFMLO
 - Some disagreements with capability and capacity
- **DDRS will provide funding to purchase**
 - No current charge to AFDS to maintain
 - PACS administrator being provided by HQ AFMC/SGD
- **Current CoN and SSAA doesn't apply to Central Archive**
 - AF/SGR is working to modify current CoN but need system deployed to finish
- **Unsure of deployment date but should be by late Summer**



Logistics & Contracting Issues

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- **Much information is “Contracting Sensitive”**
- **Phase I**
 - Mostly a Force3 design
 - Everything provided by Force3
 - Significant price markup
 - No competition at AFMLO request
- **Phase II**
 - Design more closely based upon true requirements
 - AFMLO will release a “Request for Proposal”
 - Certain items will be Government Provided
 - Additional integrators possible



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Business Practices Changes

- **PCS Dental Record In- and Outprocessing**
 - Will need to use CDRs until DDRS globally deployed
 - Have developed a standardized preprinted CDR
 - Includes HIPAA and Privacy Act Statements
 - Much cheaper than printing
- **To Print Or Not To Print?**
 - DDRS philosophy is not to print
 - Most DTFs don't get printers as part of DDRS
 - AF entry-point DTFs get diagnostic quality printers
 - Anticipate on-going need to have printed Panos
- **Will work with AF/SGOD to develop DDRS Policies**



Other Concerns

- **How Soon To Disestablish Film-based Capacity?**
 - Once darkroom and processors are gone, there is no going back to film
- **Is a Central Radiology Section Still Needed?**
 - If not, how can the space be best utilized?
 - Working with DECS to have pre-designed options
 - Possibly more DTRs eventually?
- **How Many Fixed X-ray Tube Heads Are Needed?**
 - What about the NOMAD Unit?
- **Support and Maintenance**
 - Centrally funded Helpdesk and Software Maintenance
 - DECS DDRS Webpages and FAQ



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Even More Concerns

- **Significant accomplishments to date but lots still to do**
 - Are we providing adequate resources to sustain?
- **Users seem to like the system**
- **Deployments have been fairly smooth**
 - Will this continue if we have multiple integrators?
 - Can existing DDRS Team deal with multiple integrators?
- **How soon do we need to replace current hardware?**
- **Integration Issues with Other Services and VA**



■ **CDA**

- Army has their own dental digital imaging system
- Army system integrated into CDA
- Army expressed significant “concerns” over providing MiPACS integration into CDA
- MiPACS already has software “hooks” to allow integration into other software
 - Should not be a major change to integrate with CDA

■ **AHLTA**

- DoD working to integrate Documents, Files and Images into AHLTA
- AFDS has active members on this team to ensure MiPACS images are available within AHLTA



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What's Next with DDRS?

- **Finalize Proposal Disconnects** (mid-Feb 07)
- **AFMLO Releases RFPs** (mid-Feb 07)
- **Government Purchased Equipment Contracted** (May 07?)
- **Integrator(s) are identified and Contracted** (May 07?)
- **Finalized Schedule is Developed** (mid-Feb 07)
- **Phase II is begun** (Jun/Jul 07?)
 - Goal is to be at 100% DDRS deployed by Summer 2008
- **Central Archive is Established with approved CoN**
(Summer 07?)
- **MiPACS and New Sensors are Inserted into WRM/EMEDS**
- **Integrate into CDA and AHLTA**



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Questions?



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